

Amendment to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A method for operating at least [[a]] **one of an intake valve and an exhaust** valve in at least a cylinder of an internal combustion engine, the method comprising:
operating said **at least one of said intake valve and said exhaust** valve at least during a first operating condition of a transmission coupled to said internal combustion engine; and
deactivating said **at least one of said intake valve and said exhaust** valve at least during a second operating condition of said transmission coupled to said internal combustion engine.
2. (previously presented) The method of Claim 1 wherein said first operating condition of said transmission is first transmission oil temperature.
3. (previously presented) The method of Claim 1 wherein said second operating condition of said transmission is a second transmission oil temperature.
4. (previously presented) The method of Claim 1 wherein said first operating condition of said transmission is a first gear of said transmission.
5. (previously presented) The method of Claim 1 wherein said second operating condition of said transmission is a fifth gear of said transmission.

6. (currently amended) The method of Claim 1 wherein said at least one of said intake valve and said exhaust valve is an electrically actuated valve.

7. (previously presented) A method for controlling at least an electrically actuated valve to operate in at least a cylinder of an internal combustion engine, the method comprising:

determining an operating condition of a transmission coupled to said internal combustion engine;

evaluating whether to operate said electrically actuated valve in said cylinder based on said operating condition; and

operating said selected electrically actuated valve during a cycle of said cylinder based on said evaluation.

8. (currently amended) The method of Claim [[6]] 7 wherein said operating condition is the current and a subsequent gear selection of said transmission.

9. (currently amended) The method of Claim [[6]] 7 wherein said operating condition is the oil temperature of said transmission.

10. (currently amended) The method of Claim [[6]] 7 wherein said operating condition is a selected transmission gear.

11. (currently amended) The method of Claim [[1]] 7 wherein said operating condition is the state of a torque converter lock-up clutch.

12. (currently amended) The method of Claim ~~[[6]]~~ 7 wherein said operating condition is a torque loss of said transmission.

13. (currently amended) The method of Claim ~~[[6]]~~ 7 wherein said operating condition is a position of a gear selector switch.

14. (previously presented) A method for controlling electrically actuated valves to operate in an internal combustion engine, the method comprising:

determining an operating condition of a transmission coupled to said internal combustion engine;

selecting a number of electrically actuated valves based on said determined transmission operating condition; and

operating said internal combustion engine with said selected electrically actuated valves during a cycle of said cylinder based on said evaluation.

15. (currently amended) The method of Claim ~~[[13]]~~ 14 wherein said operating condition is the current and a subsequent gear selection of said transmission.

16. (currently amended) The method of Claim ~~[[13]]~~ 14 wherein said operating condition is the oil temperature of said transmission.

17. (currently amended) The method of Claim ~~[[13]]~~ 14 wherein said operating condition is a selected transmission gear.

13. (currently amended) The method of Claim ~~[[13]]~~ 14 wherein said operating condition is the state of a torque converter lock-up clutch.

19. (currently amended) The method of Claim ~~[[13]]~~ 14 wherein said operating condition is a torque loss across said transmission.

20. (previously presented) A method for controlling at least an electrically actuated valve to operate in at least a cylinder of an internal combustion engine, the method comprising:

determining an operating condition of a transmission coupled to said internal combustion engine;

selecting number of cylinders to operated based on said determined transmission operating condition; and

operating said internal combustion engine with said selected number of cylinders during a cycle of said cylinder based on said determination.

21. (currently amended) The method of Claim ~~[[19]]~~ 20 wherein said operating condition is the current and a subsequent gear selection of said transmission.

22. (currently amended) The method of Claim ~~[[19]]~~ 20 wherein said operating condition is the oil temperature of said transmission.

23. (currently amended) The method of Claim ~~[[19]]~~ 20 wherein said operating condition is a selected transmission gear.

24. (currently amended) The method of Claim ~~[[19]]~~ 20 wherein said operating condition is the state of a torque converter lock-up clutch.

25. (currently amended) The method of Claim ~~[[19]]~~ 20 wherein said operating condition is a torque loss of said transmission.

26. (previously presented) A method for controlling at least an electrically actuated valve to operate in at least a cylinder of an internal combustion engine, the method comprising:

determining an operating condition of a transmission coupled to said internal combustion engine;

selecting a number of cylinders and electrically actuated valves to operate based on said determined transmission operating condition; and

operating said internal combustion engine with said selected number of cylinders and electrically actuated valves during a cycle of said cylinder based on said determination.

27. (currently amended) The method of Claim ~~[[25]]~~ 26 wherein said operating condition is the current and a subsequent gear selection of said transmission.

28. (currently amended) The method of Claim ~~[[25]]~~ 26 wherein said operating condition is the oil temperature of said transmission.

29. (currently amended) The method of Claim ~~[[25]]~~ 26 wherein said operating condition is a selected transmission gear.

30. (currently amended) The method of Claim ~~[[25]]~~ 26 wherein said operating condition is the state of a torque converter.

31. (currently amended) The method of Claim ~~[[25]]~~ 26 wherein said operating condition is a torque loss of said transmission.

32. (currently amended) A computer readable storage medium having stored data representing instructions executable by a computer to control an internal combustion engine of a vehicle, said storage medium comprising:

instructions for operating ~~[[a]]~~ at least one of said intake valve and said exhaust valve based on a first operating condition of a transmission coupled to said internal combustion engine; and

deactivating said at least one of said intake valve and said exhaust valve based on a second operating condition of said transmission coupled to said internal combustion engine.

33. (currently amended) The method of Claim ~~[[6]]~~ 32 wherein said ~~electrically-actuated~~ at least one of said intake valve and said exhaust valve is an electromechanical valve.

34. (currently amended) The method of Claim ~~[[7]]~~ 32 wherein said electrically actuated valve is an electromechanical valve.

35. (currently amended) The method of Claim ~~[[14]]~~ 32 wherein said electrically actuated valve is an electromechanical valve.

35. (currently amended) The method of Claim ~~[[20]]~~ 32 wherein said electrically actuated valve is an electromechanical valve.

37. (currently amended) The method of Claim ~~[[26]]~~ 32 wherein said electrically actuated ~~[[vare]]~~ valve is an electromechanical valve.